

AI-500-095 Dual Mode DSRC / C-V2X Radio Road Side Unit

Overview

The AI-500-095 is a hybrid dual-mode DSRC/ C-V2X system, with connected vehicle system capabilities, offering communication via DSRC and C-V2X radio. Elements of the system include the pole-mounted road side unit (RSU) and high-gain omni-directional antenna. The RSU is mounted in such a way as to provide easy access without the need for a bucket truck when performing maintenance. The antenna are situated at the top of the traffic signal arm to achieve the necessary line-of-sight distance.



The AI-500-095 dual mode system works in tandem with the AI-500-085 controller, which resides in the traditional traffic cabinet. This controller provides connectivity via power and Ethernet cable, as well as additional communication platforms, being the cellular network and 900MHz radio. All system elements conform with NEMA TS2 environmental standards.

The unit works in conjunction with the Glance Platform, providing connectivity to the cloud-based Glance solution. The Glance system allows traffic engineers and maintenance engineers to monitor and manage the connected vehicle system.

Features

- ✓ C-V2X and DSRC radio
- ✓ Controller Passthrough Communications
- ✓ Future proof your intersections with both DSRC and C-V2X
- ✓ Compatible with Glance platform
- ✓ GPS enabled for self-locating
- ✓ Simple to configure priority and preemption zone using map based configuration.
- ✓ Integral battery back-up for power fail reporting
- ✓ Available with only DSRC or C-V2X network communication
- ✓ Provides connected vehicle applications through the smartphone app, TravelSafely

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Hardware Specification



AI - 500-095

Connectivity

DSRC	u-blox
C-V2X	Qualcomm PC5
Ethernet Port (10/100Base-T)	4 Port Managed Ethernet Switch 10/100Base T
Cellular Modem	4G LTE Cat 4 Multimode (150 Mbit up, 50 Mbit down)
900MHz Radio	Yes
GPS	Yes

Power

Input Voltage	9-36 V DC
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Miscellaneous

Operating Systems	Linux
Processor	ARM 9 Atmel processor
Operating Temperature	-34°C to 74°C - NEMA TS2
Humidity	5-95% non-condensing
Dimensions	17.5" x 1.75" x 7.5" rack mount, 12" x 10" x 5" radio
Mounting	1 rack mounted AI-500-085, 1 Radio Cabinet AI-500-095
Real Time Clock	Yes
Flash Disk	Yes
Battery Backup	Yes

Security

SCMS Ready	Yes
Standards NEMA TS2, NEMA TS8, SAE J2735, NEMA TS10 (draft), NTCIP 1218 (draft)	

